

MID-SOUTH WOOD PRODUCTS ARKANSAS

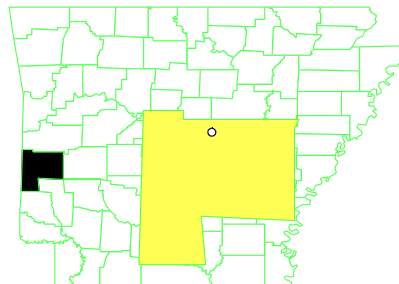
EPA ID# ARD092916188

Site ID: 0600136

EPA REGION 6

CONGRESSIONAL DISTRICT 4

Polk County



Updated: April 27, 2005

Other Names: Mid-South Lumber Products

Site Description

Location:

- North of U.S. Highway 71 just west of Mena in Polk County.
- Western Arkansas.

Population:

- Approximately 40 to 50 people reside on the 18 properties that are adjacent to the site.

Setting:

- The Mid-South site is comprised of approximately 57 acres.
- Past activities on site included a sawmill and wood preserving operation.
- Wood preservatives used on site were creosote, pentachlorophenol (PCP) and copper, chromium arsenate (CCA)
- There are CCA preserving operations on site. But of late the plant has operated intermittently

Hydrology:

- Soil cover on the Mid-South site and surrounding area is relatively thin and limited to 1.0 - 10 feet throughout the site. The cover soils are underlain by weathered shale and sandstone. Ground water flows through the fractured rock regime. The primary direction is to the northwest along the anomalous zone (fault) and the southwest along the railroad flexure. Surface drainage is controlled by a drainage divide that crosses the site from the northwest to southeast in the eastern section of the site. Precipitation that falls east of the divide flows eastward into an unnamed tributary of Prairie Creek. Runoff also flows westward from the drainage divide through the landfill area to East Fork Moon Creek. There are 14 nearby wells, five located along Highway 71, and seven are along County Road 374. Since the beginning of the Remedial Investigation, homes northwest of the site (direction of ground water flow) have been connected to the Mena City Water System.

Current Site Strategy

- The objective of this site cleanup is to protect human health and the environment by controlling the migration of shallow groundwater contaminants so as to reduce and/or eliminate the potential of contaminating deeper aquifers, and if possible restore the shallow groundwater to a potential

future beneficial use. The current plan is to pump, treat and discharge contaminated groundwater until the contaminant concentrations are below the cleanup goals. The Edward Hines Lumber O & M Trust and the Mid-South Lumber Co. are the cleanup responsible parties.

Wastes and Volumes

- The principal pollutants at the Mid-South Wood Products Superfund site included:

	<u>Soil (ppm)</u>	<u>Groundwater (ppm)</u>
Arsenic	5.6 - 270.0	0 - 1.8
Chromium	19.4 - 450	0 - 0.4
Pentachlorophenol (PCP)	0 - 11,000	0 - 44

- The volume of contaminated soil stabilized and capped was approximately 100,000 cubic yards.

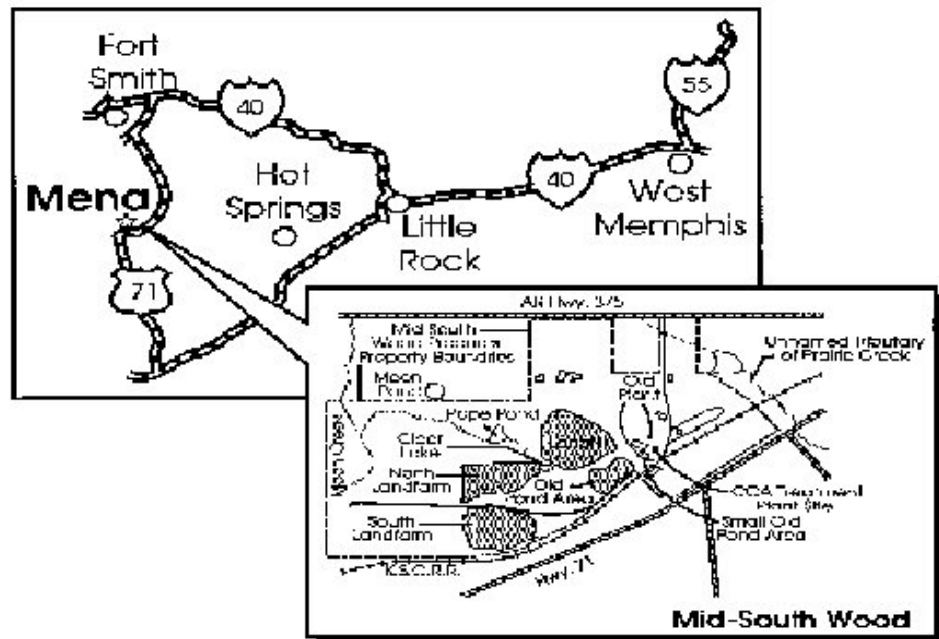
Site Assessment and Ranking

NPL LISTING HISTORY

Site HRS Score: 45.87
Proposed Date: 12/30/82
Final Date: 9/08/83
NPL Update: Original

- The Department of Interior noted a threat to valuable stream fisheries. These concerns were taken care of in the HRS package when scoring critical habitat.

Site Map and Diagram



The Remediation Process

Site History:

- The plant site was originally developed by Nebraska Bridge Supply & Lumber Company in the late 1930s. In 1955, the facility operated under the name of Three States Lumber Company, with pressure treating of lumber being the primary activity. Edward Hines Lumber Company purchased the site in 1967 and operated the plant as a PCP and creosote wood treatment facility. In 1977, Hines converted the operation to a chromated copper arsenate (CCA) wood-treating process. In 1978, MidSouth acquired the property from Hines and has since continued to use the CCA process.

Health Considerations:

- Surface waters were contaminated with pentachlorophenol, creosote, arsenic, and chromium.

Other Environmental Risks:

- There is subsurface ground water contamination. Approximately 5700 people are served by drinking water wells within one mile of the site.

Record of Decision

Signed: November 14, 1986

- The remedy for the Mid-South Wood Products Superfund site included the following: Excavated heavily contaminated materials in Old Pond/Old Plant area and stabilized wastes. Consolidated this material with contaminated soils in landfarm area; covered with cap. Stabilized wastes in Old Pond and North Landfarm areas and covered with a clay cap. Completed installation of ground water recovery and treatment system. Pump and treat contaminated ground water. This remedy will protect humans from unhealthy exposures to contaminated soil as well as surface and ground water.

Other Remedies Considered

1. Containment
2. Source Removal

Reason Not Chosen

Did not include treatment.
Did not include treatment; selected remedy was more protective of public health

Enforcement

- Consent Decree for RD/RA was filed on May 16, 1988 and signed by EPA, Edward Hines Lumber Co. and Mid-South Wood Products

Community Involvement

- Community Involvement Plan: Developed 04/84, revised 01/88.
- Original Proposed Plan Fact Sheet and Public Meeting: 08/85 and 08/86.
- Original ROD Fact Sheet: 01/88.

- Milestone Fact Sheets: Remedial Design approval fact sheet 5/88; Remedial Action completion fact sheet 9/89; Update 10/90; Open House 1/94; Update 2/94;
- Citizens on site mailing list: 73
- Constituency Interest: Low public interest, not formally organized. Primary concern is the potential economic impact of any action on a major employer.
- Open House: On 11/18/96 EPA held an open house to listen to any concerns the local community had with regard to the remedy's performance. There were no significant concerns expressed.
- Site Repository: Polk County Library

Technical Assistance Grant

- Availability Notice: 01/89
- Letters of Intent Received: None
- Grant Award: N/A

Contacts

- **Remedial Project Manager (EPA):** Shawn Ghose 214/665-6782, Mail Sta. 6SF-AP
- **State Contact:** Mike Arjmandi (ADEQ) 501/682-0852
- **Community Involvement Coord. (EPA):** None
- **Attorney (EPA):** Gloria Moran, 214/665-3193, Mail Code 6RC-S
- **State Coordinator (EPA):** Karen Bond, 214/665-6682, Mail Code. 6SF-AP
- **Prime Contractor:** CH2M HILL , PRP's- B&F Engineering, Inc.

Present Status and Issues

- Ground water long-term remedial action is under way.
- EPA approved 1996 annual report
- 1997 annual report received in February 1998 and approved
- In first quarter, FY 99, Arkansas Department of Environmental Quality (ADEQ) sampled surface & subsurface samples for Chromium contamination found them to exceed the current clean up standards (Remedial Action Investigation Report).
- The 1st Five Year Review was completed in June 1997
- Change in the Pump & Treat system and change in the soil remediation goals, consistent with the anticipated land use for the site, based on the 2001 risk evaluation (1 in 100,000 excess cancer risk under an industrial scenario). Also, ADEQ has evaluated the Pump & treat system, and found it *not effective* under fractured hydrologic condition that exists. EPA plans to partially shut down the ineffective pump & treat system under Technical Impracticability waiver (in the ROD Amendment).
- EPA completed the 2nd Five Year Review in September 2002. Public notice of the Five year Review was placed in the Mena newspaper in December 2002.

Schedule

● CERCLIS 3 Schedule Milestones

- The 1st Five Year Review was completed in June 1997
- The 2nd Five Year Review was completed on September 27, 2002(4^Q 2002)
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Benefits

● A ground water extraction and treatment system is treating ground water to the following standards, and preventing contamination from migrating off site.

- PCP	0.20 ppm	- Chrysene	0.01 ppm
- Benzo(a)anthracene	0.01 ppm	- Arsenic	0.05 ppm
- Benzo(a)pyrene	0.01 ppm	- Chromium	0.05 ppm
- Benzo(b+k)fluoranthene	0.01 ppm		

● Approximately 100,000 cubic yards of contaminated soil were stabilized and capped on-site, protecting workers on site and preventing contamination from migrating off site.